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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,533	12/13/2005	Anna Fernandez Serrat	3378-0101	6463
ROTHWELL, FIGG, ERNST & MANBECK, P.C. 1425 K STREET, N.W. SUITE 800 WASHINGTON, DC 20005			EXAMINER	
			JARRELL, NOBLE E	
			ART UNIT	PAPER NUMBER
			1624	
			NOTIFICATION DATE	DELIVERY MODE
			10/28/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTO-PAT-Email@rfem.com

Office Action Summary		Application No.	Applicant(s)			
		10/560,533	FERNANDEZ SERRAT ET AL.			
		Examiner	Art Unit			
		NOBLE JARRELL	1624			
Period fo	The MAILING DATE of this communication a r Reply	ppears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REP EHEVER IS LONGER, FROM THE MAILING isions of time may be available under the provisions of 37 CFR is SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory perion is to reply within the set or extended period for reply will, by state eply received by the Office later than three months after the mained patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on <u>10</u>	August 2010.				
	-	nis action is non-final.				
3)	, 					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□	Claim(s) 12-14,46 and 47 is/are pending in the day of the above claim(s) is/are withdown claim(s) 13 and 47 is/are allowed. Claim(s) 12,14 and 46 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	rawn from consideration.				
Applicati	on Papers					
9)□	The specification is objected to by the Exami	ner.				
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the	ne drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the l	Examiner. Note the attached Office	Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
	e of References Cited (PTO-892)	4) ☐ Interview Summary				
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

Application/Control Number: 10/560,533 Page 2

Art Unit: 1624

DETAILED ACTION

Response to Amendment

1. Claims 12, 13, 14, 46, and 47 are pending in the instant application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 12, 14, and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kundu et al. (Combinatorial Chemistry and High Throughput Screening, 2002, 5, pages 545-550, cited previously).

Determining the scope and contents of the prior art

Kundu describes compounds 38 and 39 (page 546), shown below for applicants' convenience. In these compounds, the following definitions apply: variable A is OR1 where R1 is H; variable W is NH-CH(benzyl); and variable Z is CH₂-[4-(methoxy or bromo)-phenylene. Pharmaceutical compositions comprising these compounds are described (page 548, "Biological Activity" section). These compounds are being used α-Glucosidase inhibitors, which are related to antidiabetic activity, blocking of viral infections and tumor growth (title, page 545, first paragraph of "Introduction" section, page 545).

Application/Control Number: 10/560,533

Art Unit: 1624

RM 524048-71-3 CAPLUS
CN L-Phenylalacine, N-[4-[(4-methoxyphenyl)methoxy]benzoyl]- (CA INDEX NAME)
Absolute stereochemistry.

Page 3

RN 524048-72-4 CAPLUS
CN L-Phenylalanine, N-[4-[(4-bromophenyl)methoxy]benzoyl]- (CA INDEX NAME)
Absolute stereochemistry.

Ascertaining the differences between the prior art and the claims at issue

In the prior art, variable I of variable W is an unsubstituted phenyl ring. In the instant application, variable I of variable W is an unsubstituted phenyl ring.

Resolving the level of ordinary skill in the pertinent art

Those of relative skill in the art are those with level of skill of the authors of the references cited to support the examiner's position (relative skill of those in this art is MD's, PhD's, or those with advanced degrees and the requisite experience in preparation of compounds of the elected group).

Considering objective evidence present in the application indicating obviousness or nonobviousness

In re Lohr and Spurlin (137 USPQ 548) teaches:

Application/Control Number: 10/560,533 Page 4

Art Unit: 1624

When a new compound so closely related to a prior art compound as to be structurally obvious is sought to be patented based on the alleged greater effectiveness of the new compound for the same purpose as the old compound, clear and convincing evidence of substantially greater effectiveness is needed. Here there are no new properties, but merely an alleged improvement in the same property for use against the same pests.

It is stated by applicants that peroxisome proliferator activated receptors (PPARs) are new pharmacological targets for the development of useful therapeutic agents for the prevention or treatment of diabetes (page 2, lines 8-13). In the application of Lohr to a comparison between the prior art and the instant application, it is observed that same disease (diabetes) can be treated through different receptors (α-Glucosidase in the prior art and PPAR in the instant application). The pending claims of the instant application are compound claims, not method claims. Compound 38 is different from a compound of claims 12, 14, and 46 due to the presence of an unsubstituted phenyl ring for variable I. Substitution of H for a methyl group is obvious when an overlapping disease is present. A 4methoxy group (attached to variable I') renders a (C_2-C_4) -alkoxyl group obvious because diabetes can be treated through modulation of both of these receptors and the structural similarity between the compounds. It shows that the alkoxy substituent present is not critical to a compound of the instant application being effective. Compound 39 is similar to compound 38 except that variable l' is 4bromophenyl. A bromine substituent belongs to the same periodic family as F or Cl. Consequently, substitution of bromo for F or Cl is obvious in view of the structural similarity, same disease being treated, and the elements of the halogen family. Similar to the alkoxy group, the substitution of one halogen is not critical in view of the prior art. This rejection is maintained for the reasons set forth above.

Allowable Subject Matter

5. Claims 13 and 47 appear free of the prior art of record.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NOBLE JARRELL whose telephone number is (571)272-9077. The examiner can normally be reached on M-F 8:30 A.M - 5:00 P.M. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. James O. Wilson can be reached on (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/560,533 Page 6

Art Unit: 1624

Primary Examiner, Art Unit 1624